

INTERNATIONAL SEARCH REPORT

Int. Application No
PCT/IL 01/00697

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04Q7/36

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>LI-CHUN WANG ET AL: "ARCHITECTURE DESIGN, FREQUENCY PLANNING, AND PERFORMANCE ANALYSIS FOR A MICROCELL/MACROCELL OVERLAPPING SYSTEM"</p> <p>1996 IEEE INTERNATIONAL CONFERENCE ON COMMUNICATIONS (ICC). CONVERGING TECHNOLOGIES FOR TOMORROW'S APPLICATIONS. DALLAS, JUNE 23 - 27, 1996, IEEE INTERNATIONAL CONFERENCE ON COMMUNICATIONS (ICC), NEW YORK, IEEE, US, vol. 2, 23 June 1996 (1996-06-23), pages 797-801, XP000625884</p> <p>ISBN: 0-7803-3251-2</p> <p>page 797, left-hand column, line 1</p> <p>-right-hand column, line 21</p> <p>---</p> <p>-/--</p>	1-11

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	CIMINI L J ET AL: "DISTRIBUTED DYNAMIC CHANNEL ALLOCATION ALGORITHMS FOR MICROCELLULAR SYSTEMS" WIRELESS COMMUNICATIONS. FUTURE DIRECTIONS, DORDRECHT, NL, 1993, pages 219-241, XP000431206 page 219 -page 221	1-11
Y	FRULLONE M ET AL: "ON THE OPTIMUM ALLOTMENT OF FREQUENCY RESOURCES IN MIXED CELLULAR LAYOUTS" IEICE TRANSACTIONS ON FUNDAMENTALS OF ELECTRONICS, COMMUNICATIONS AND COMPUTER SCIENCES, INSTITUTE OF ELECTRONICS INFORMATION AND COMM. ENG. TOKYO, JP, vol. E75-A, no. 12, 1 December 1992 (1992-12-01), pages 1642-1651, XP000339150 ISSN: 0916-8508 page 1643, left-hand column, line 19, paragraph 2.1 -right-hand column, line 18	1-11
Y	GREENSTEIN L J: "MICROCELLS IN PERSONAL COMMUNICATIONS SYSTEMS" IEEE COMMUNICATIONS MAGAZINE, IEEE SERVICE CENTER. PISCATAWAY, N.J, US, vol. 30, no. 12, 1 December 1992 (1992-12-01), pages 76-88, XP000330092 ISSN: 0163-6804	12-15
X	page 85, left-hand column, line 10 -right-hand column, line 10; figure 14	21-23
Y	EP 0 817 516 A (NIPPON ELECTRIC CO) 7 January 1998 (1998-01-07) abstract; figure 1 column 1, line 24 - line 29	12-15
X	US 5 483 666 A (OHMORI EIJI ET AL) 9 January 1996 (1996-01-09) abstract	16-20

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0817516	A	07-01-1998	JP 2809273 B2	08-10-1998
			JP 10013909 A	16-01-1998
			EP 0817516 A2	07-01-1998
			US 6035208 A	07-03-2000
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			JP 5110501 A	30-04-1993
			GB 2260879 A ,B	28-04-1993
			US 5710973 A	20-01-1998

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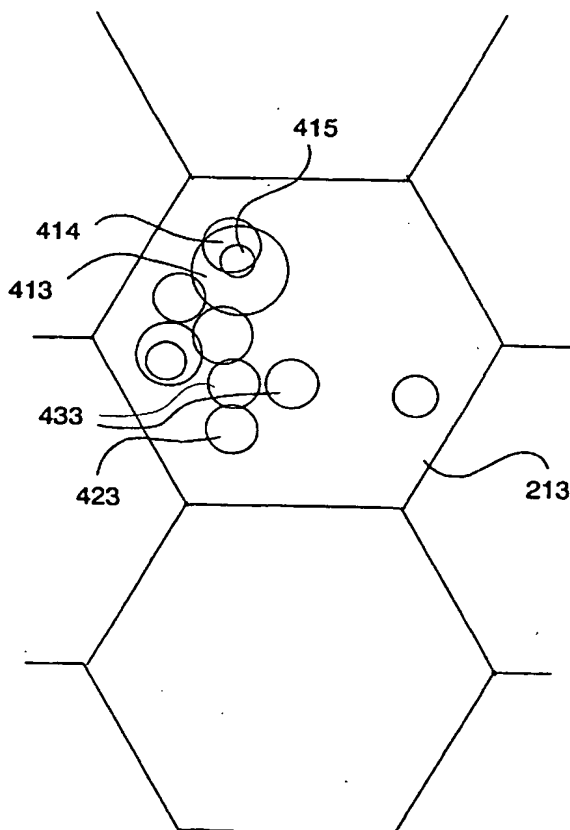
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For two-letter codes and other abbreviations, refer to the "Guid-
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(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,

(54) Title: CELLULAR NETWORK SYSTEM AND METHOD



(57) Abstract: A method for gradual expansion of a cellular network comprising the steps of: A. Creating a plurality of new, smaller cells within an existing, larger cell, wherein each new cell is randomly located; B. integrating each of the new cells within the existing cellular network by connecting it to the cellular network infrastructure; and C. giving priority in connecting mobile users through one of the new cells' base stations, by transferring calls from the existing base station to a new base station, whenever possible. In a cellular network system, an add-on base station comprising transmitters, receivers and a controller, wherein the controller includes means for listening to the cellular traffic and for allowing the base station to take control according to predefined rules.

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